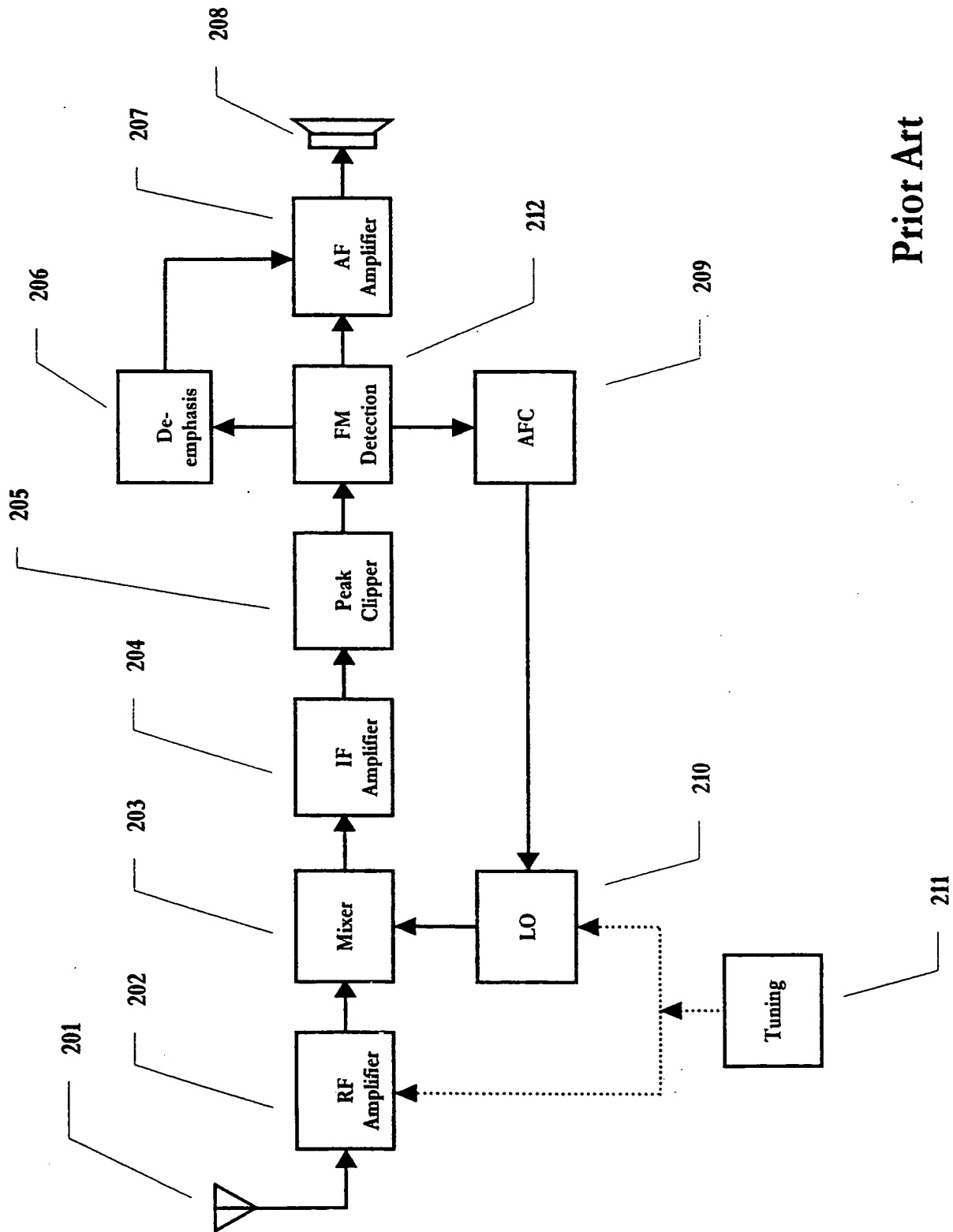


Figure 1

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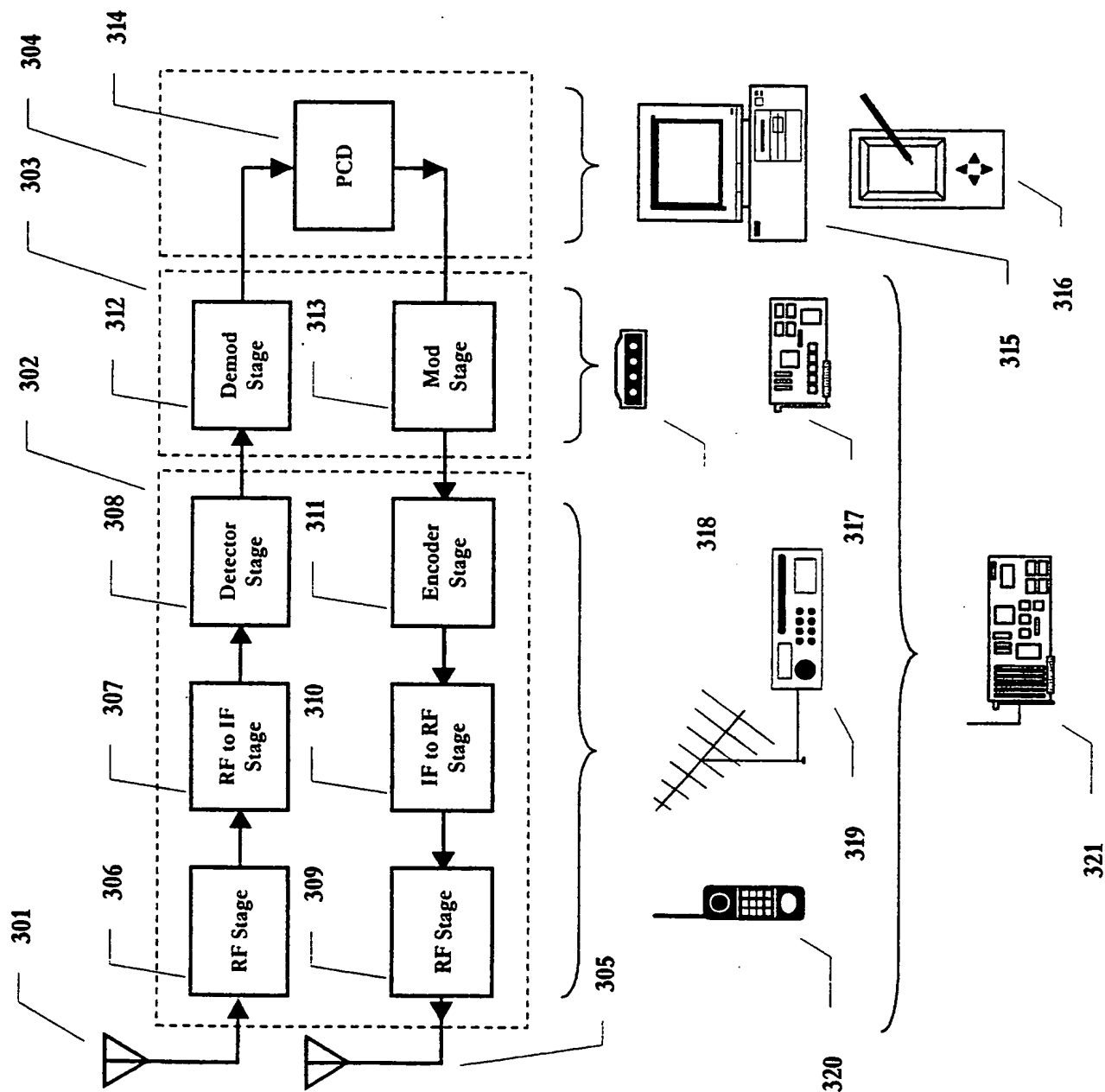


Prior Art

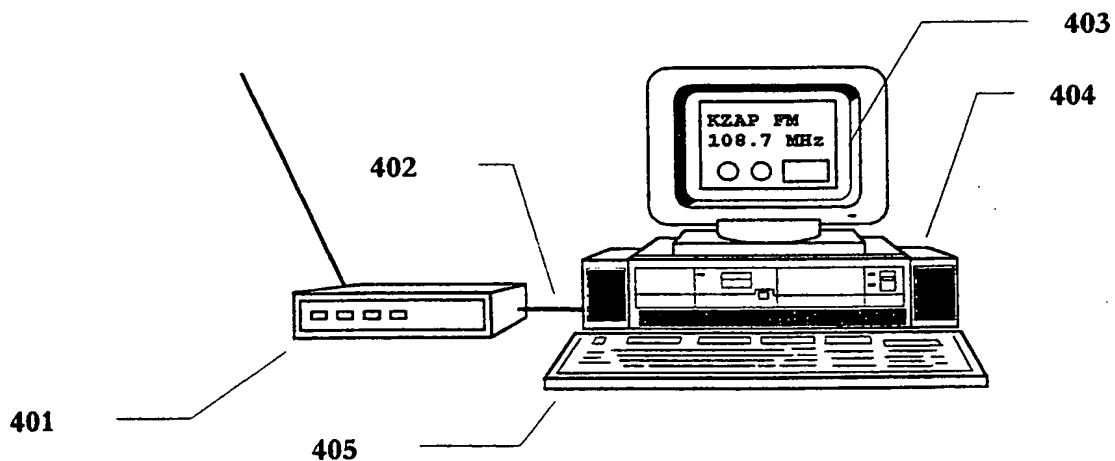
Figure 2

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Prior Art
Figure 3



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Prior Art

Figure 4

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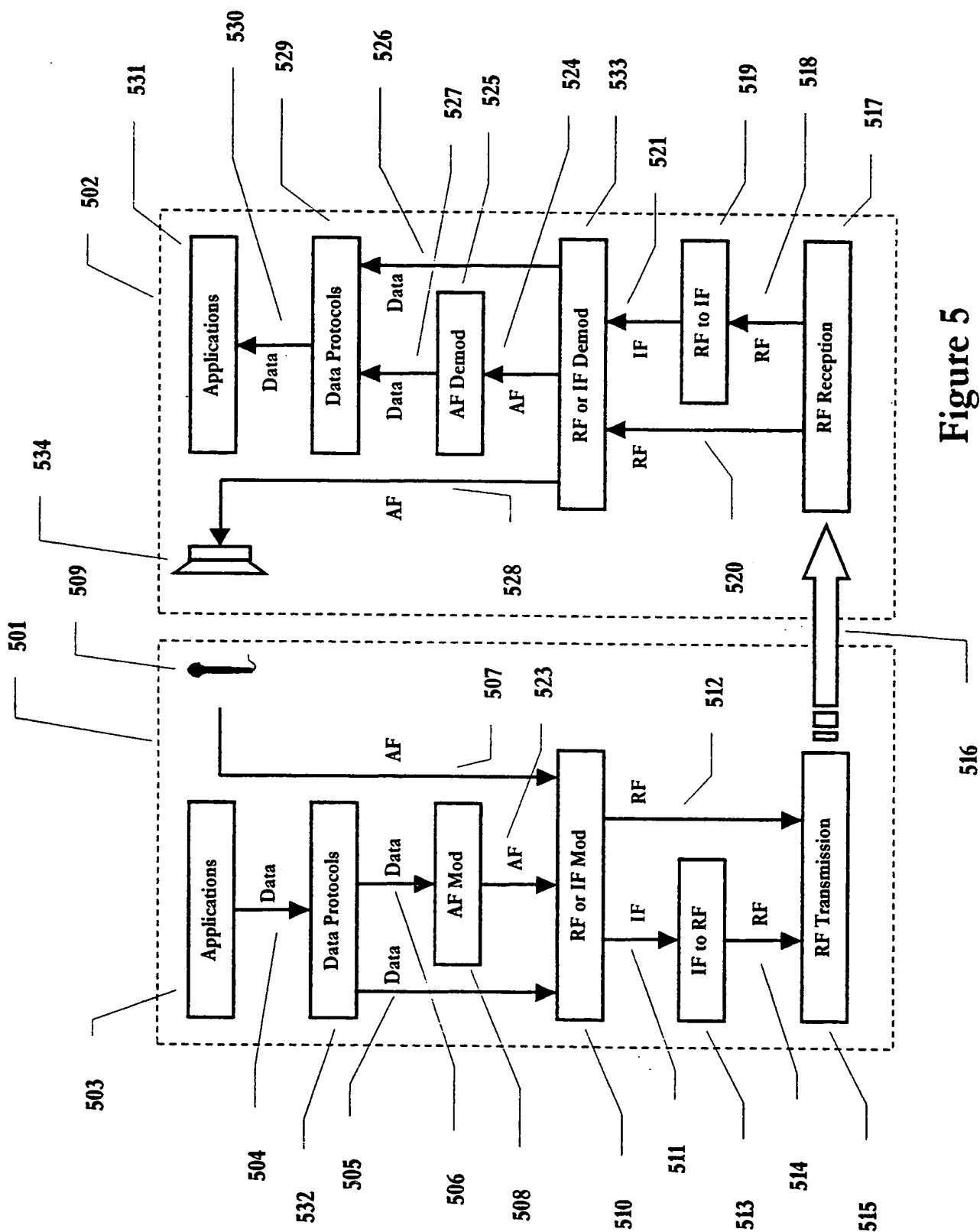
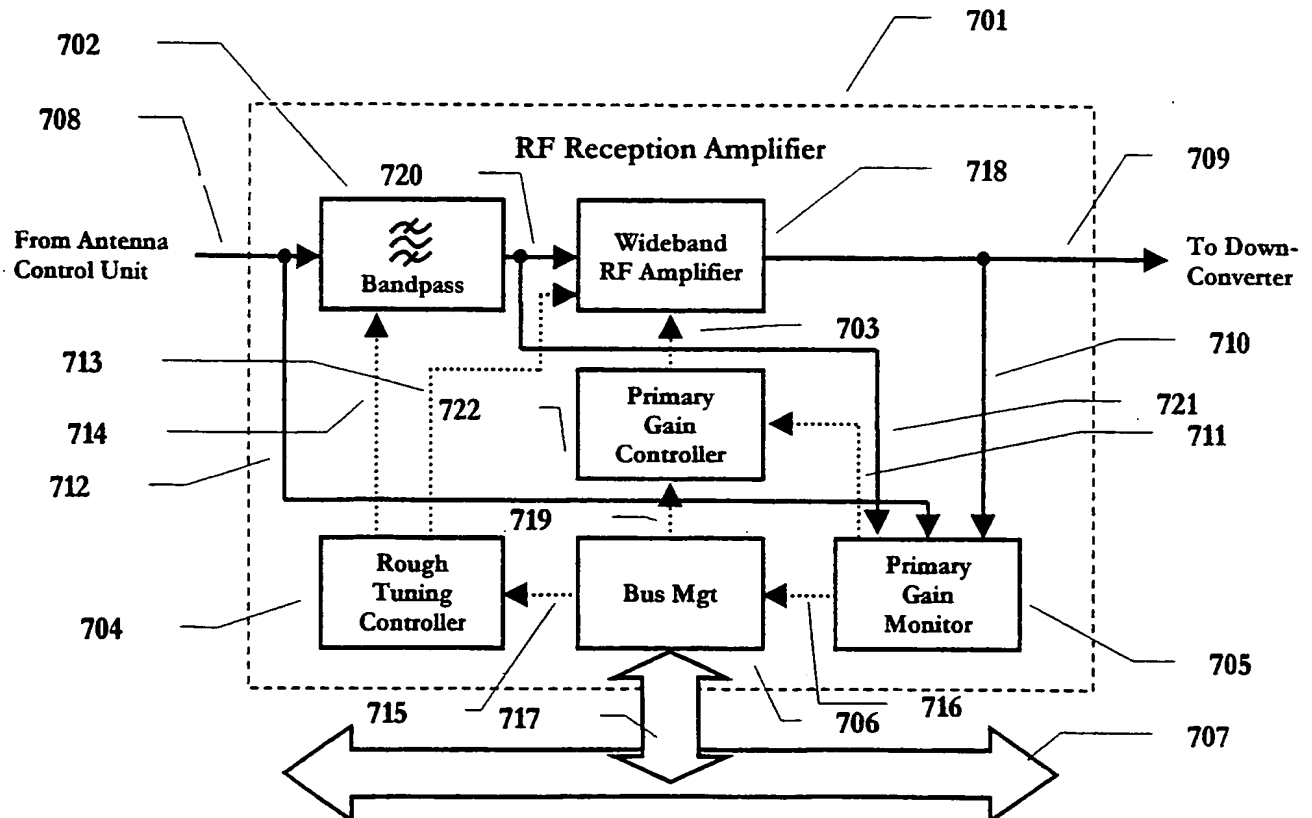
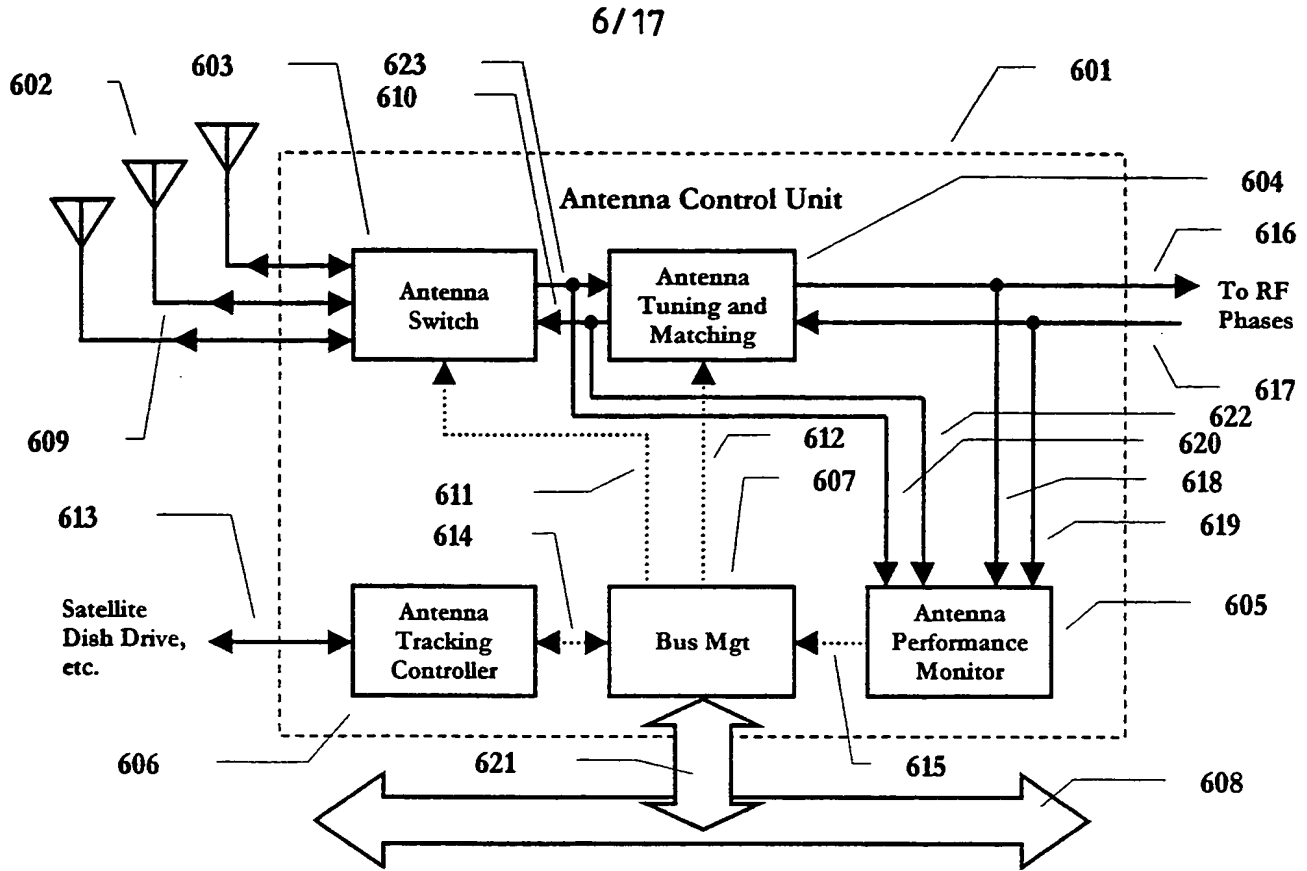


Figure 5



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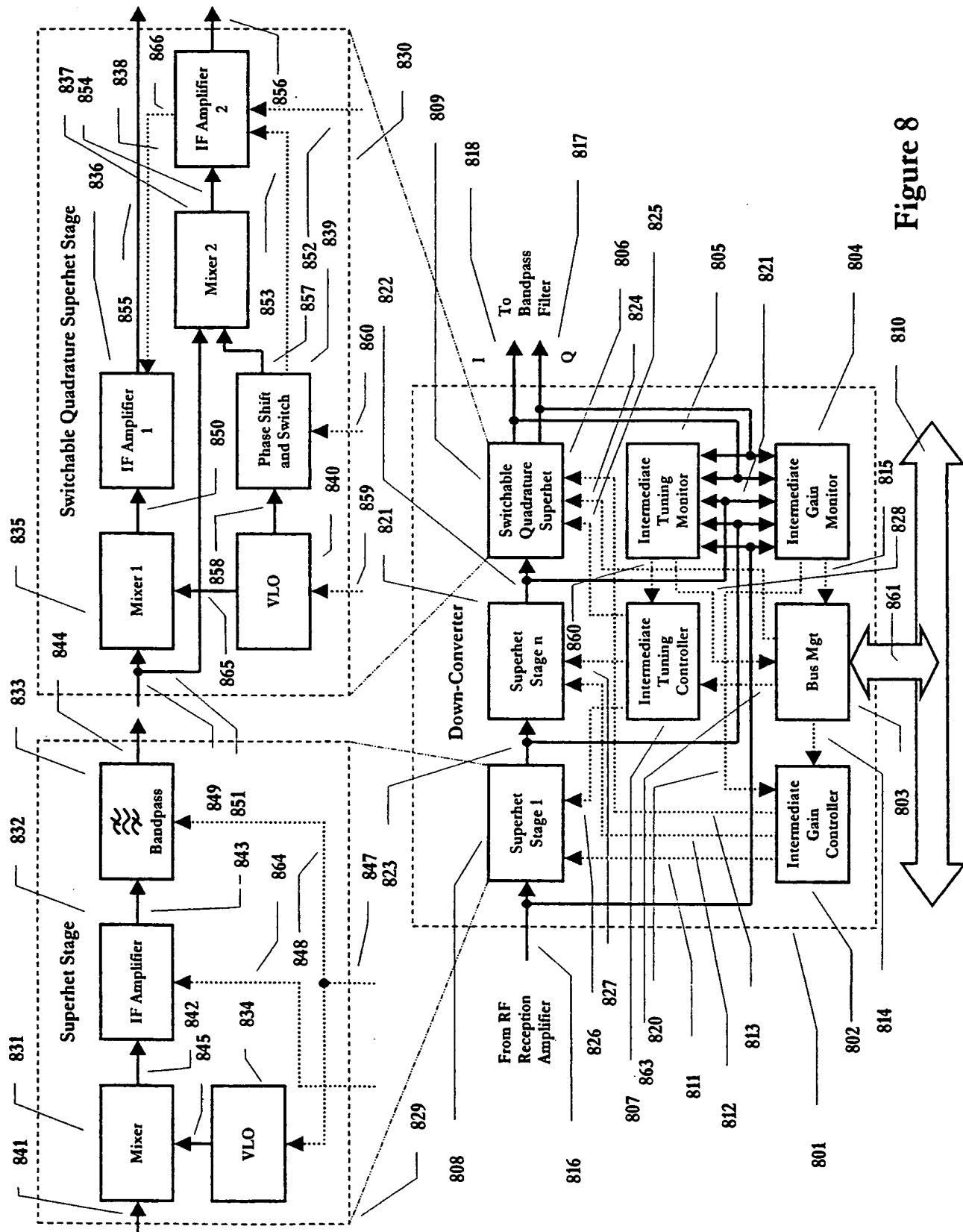


Figure 8

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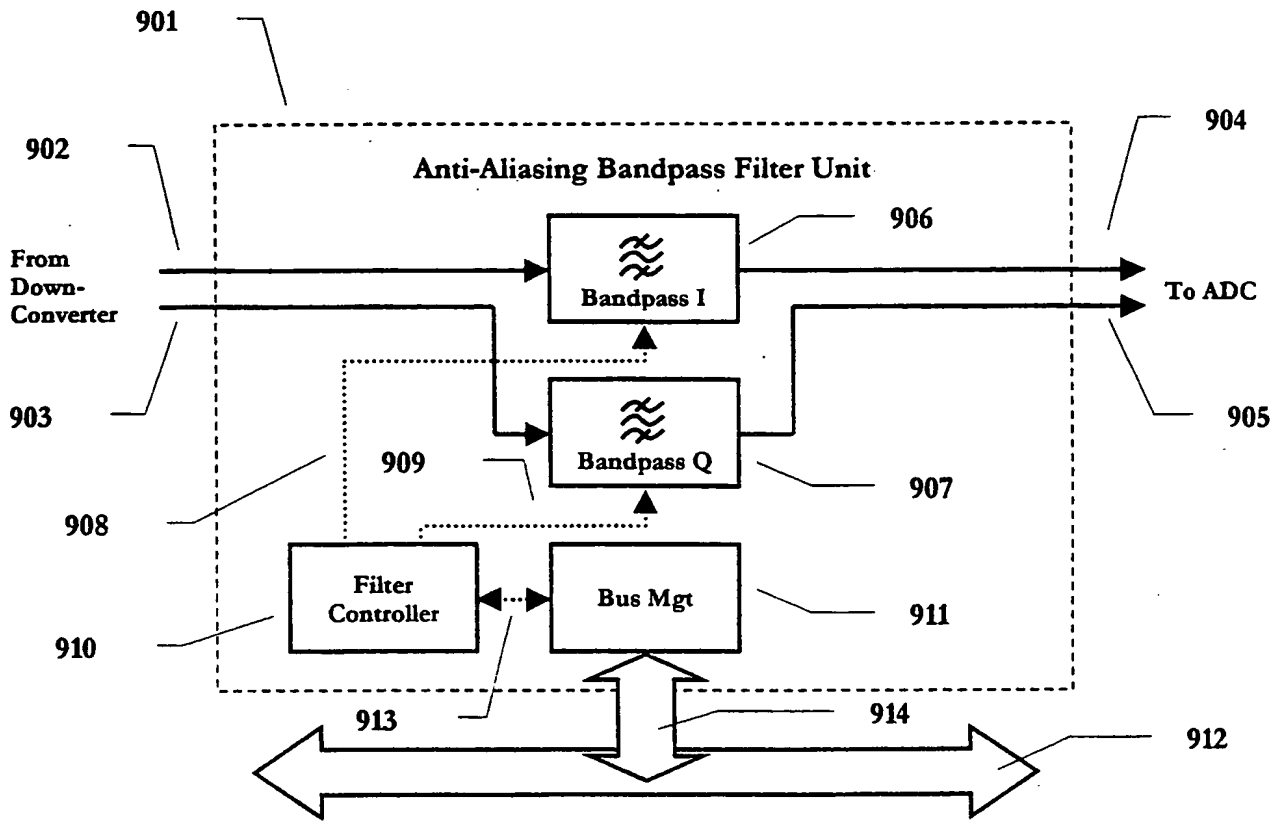


Figure 9

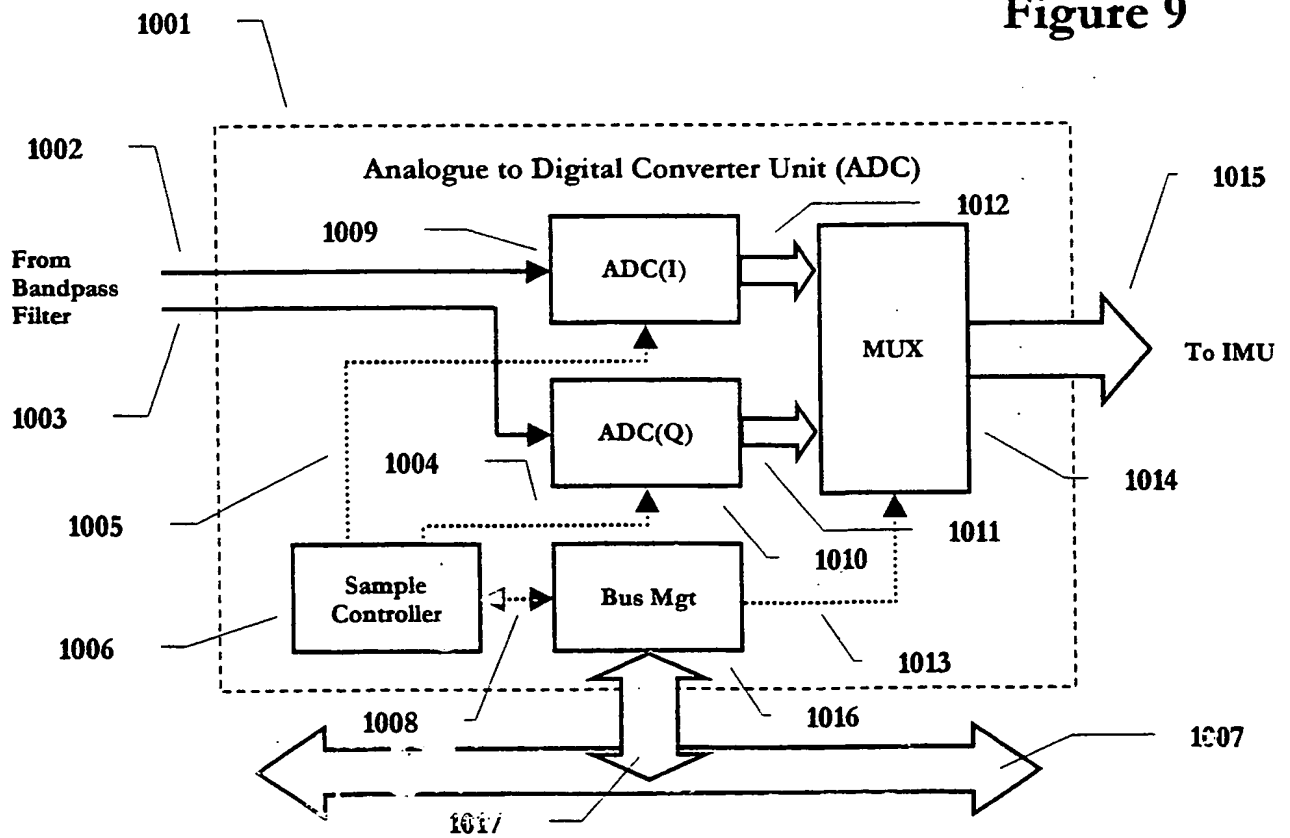


Figure 10

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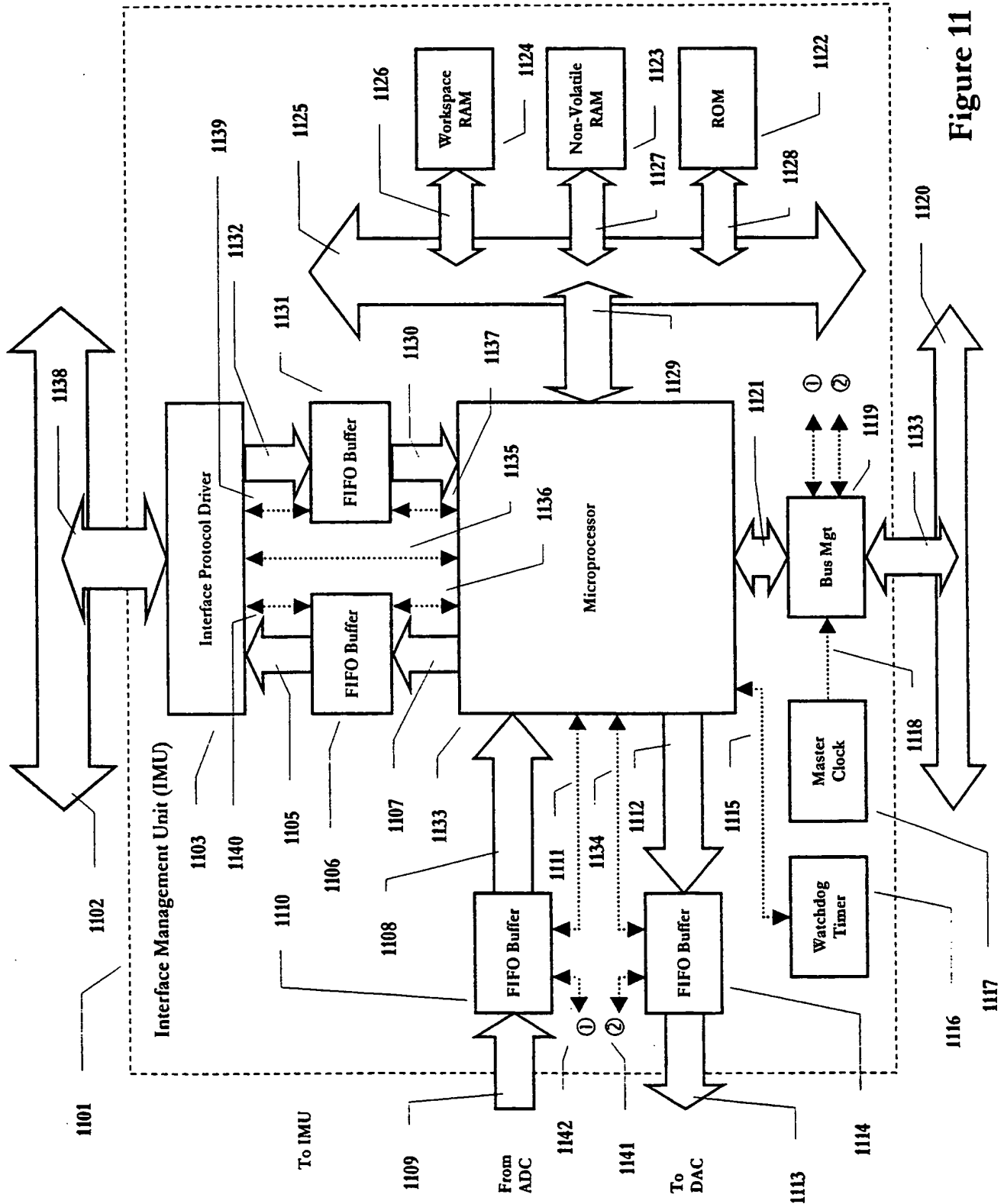
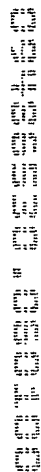


Figure 11



1301

1304

To Up-Converter

1320

Anti-Aliasing Bandpass Filter and Combiner

1314

1316

Mixing Controller

1315

1307

1308

1319

Switching Quadrature Σ Mixer

1313

Bandpass I

1317

From DAC

1312

1318

Bandpass Q

1305

1306

Bus Mgt

1309

1310

1311

Figure 13

[illegible]

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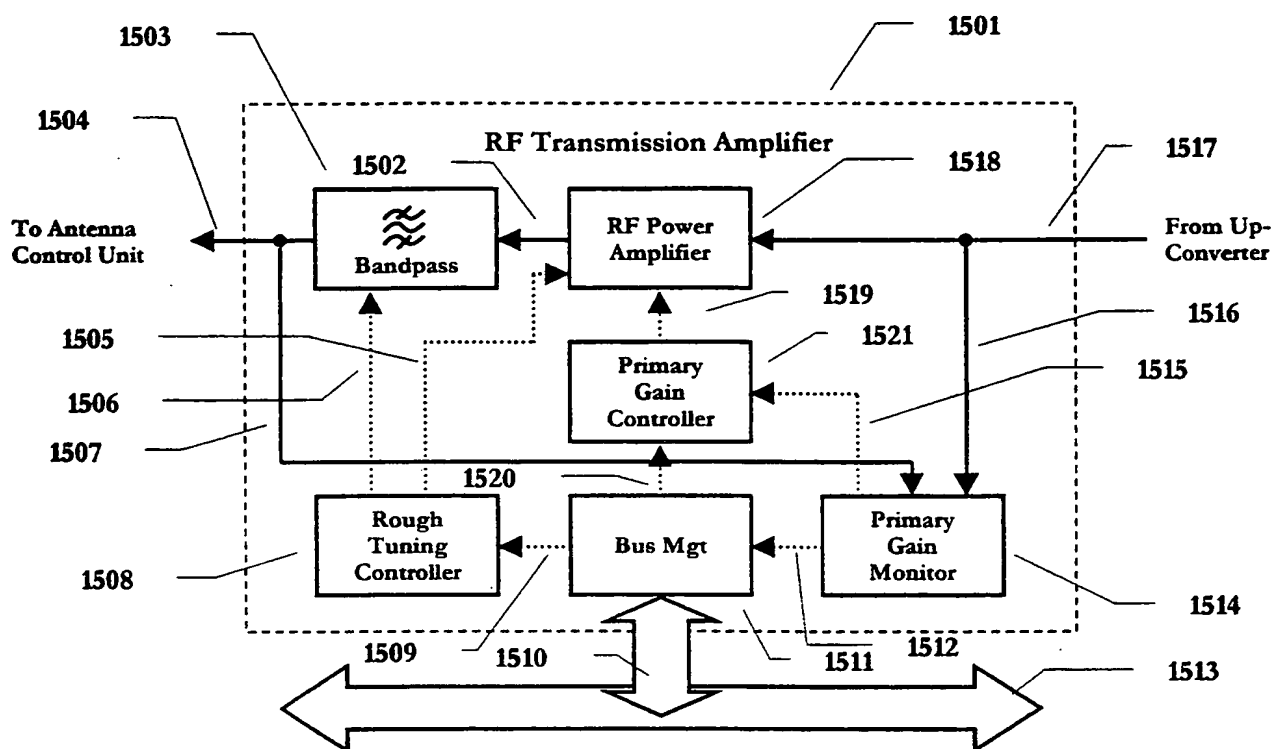


Figure 15

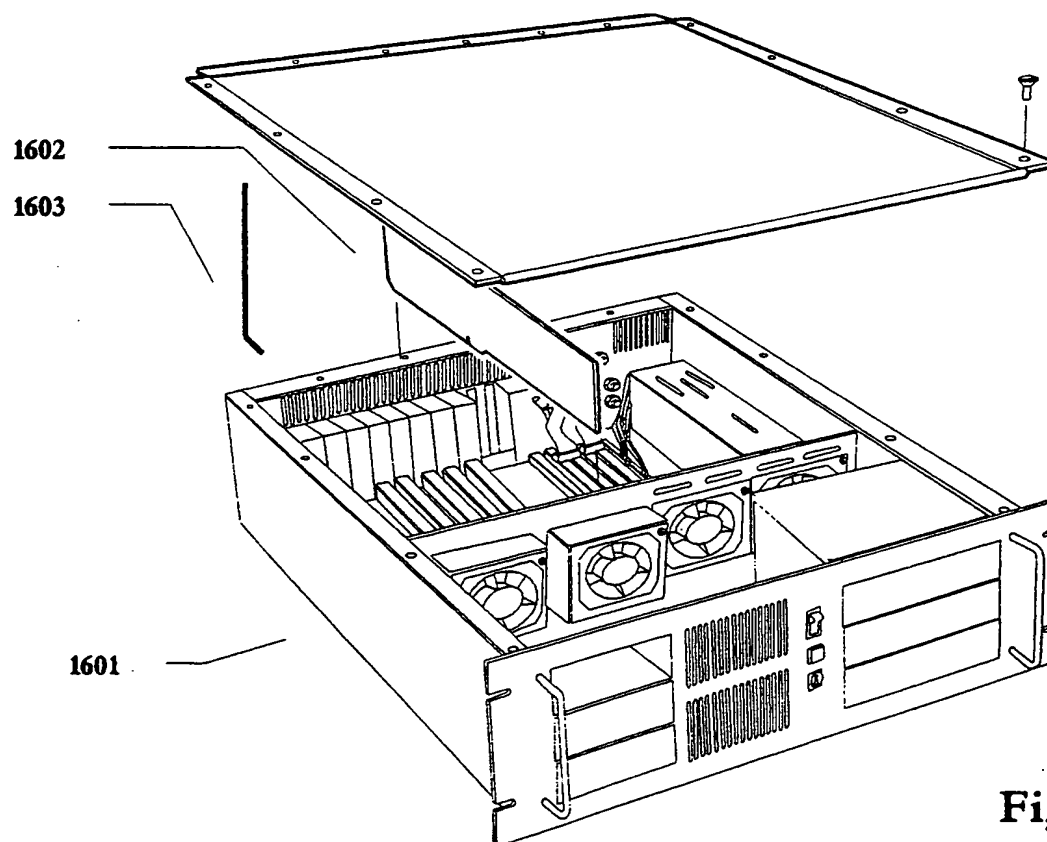


Figure 16

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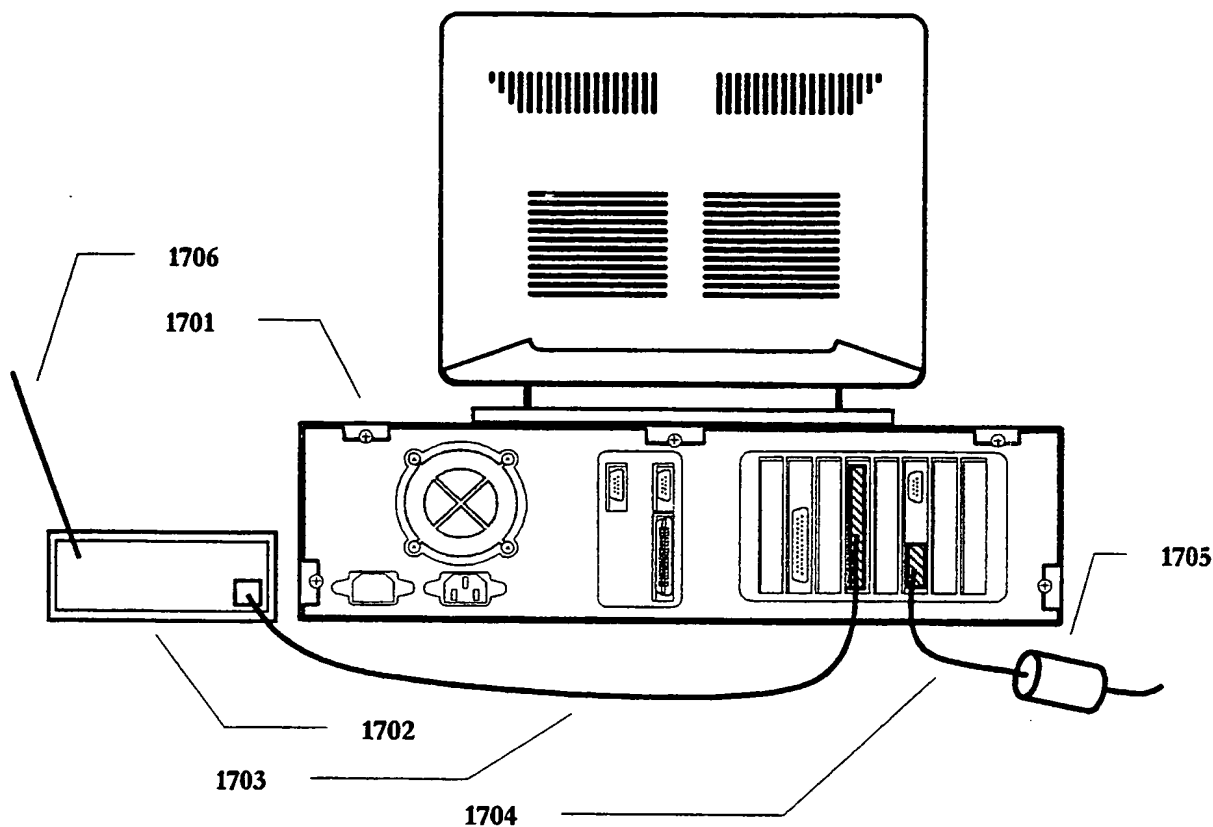


Figure 17

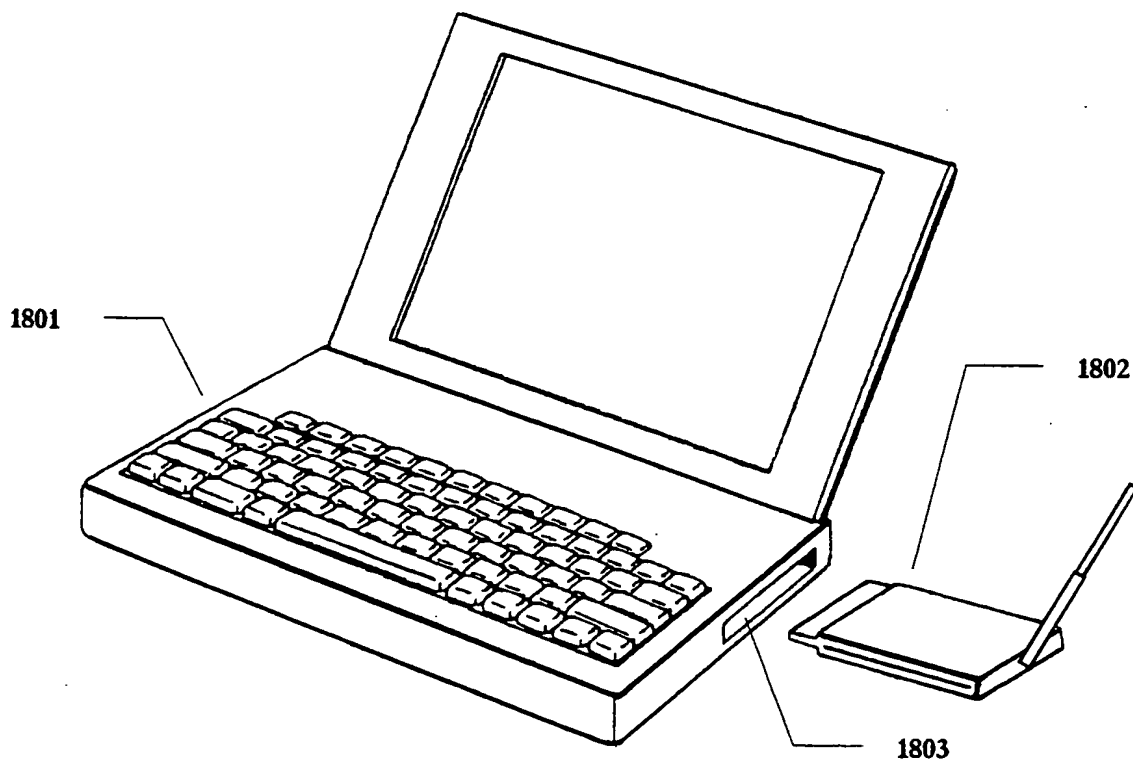


Figure 18



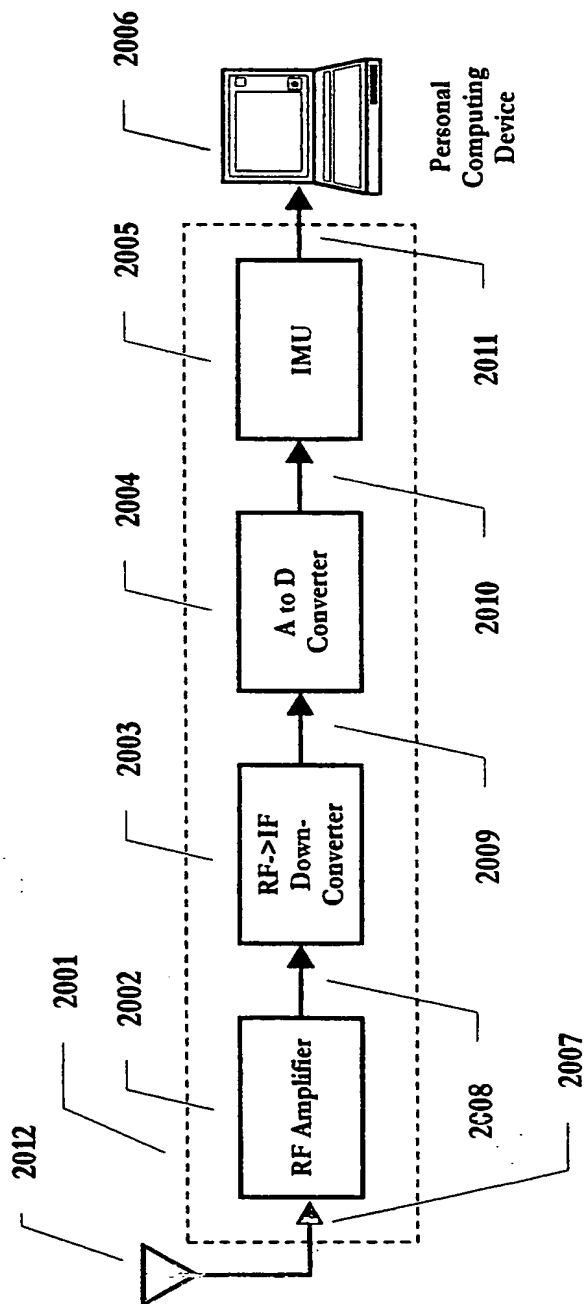
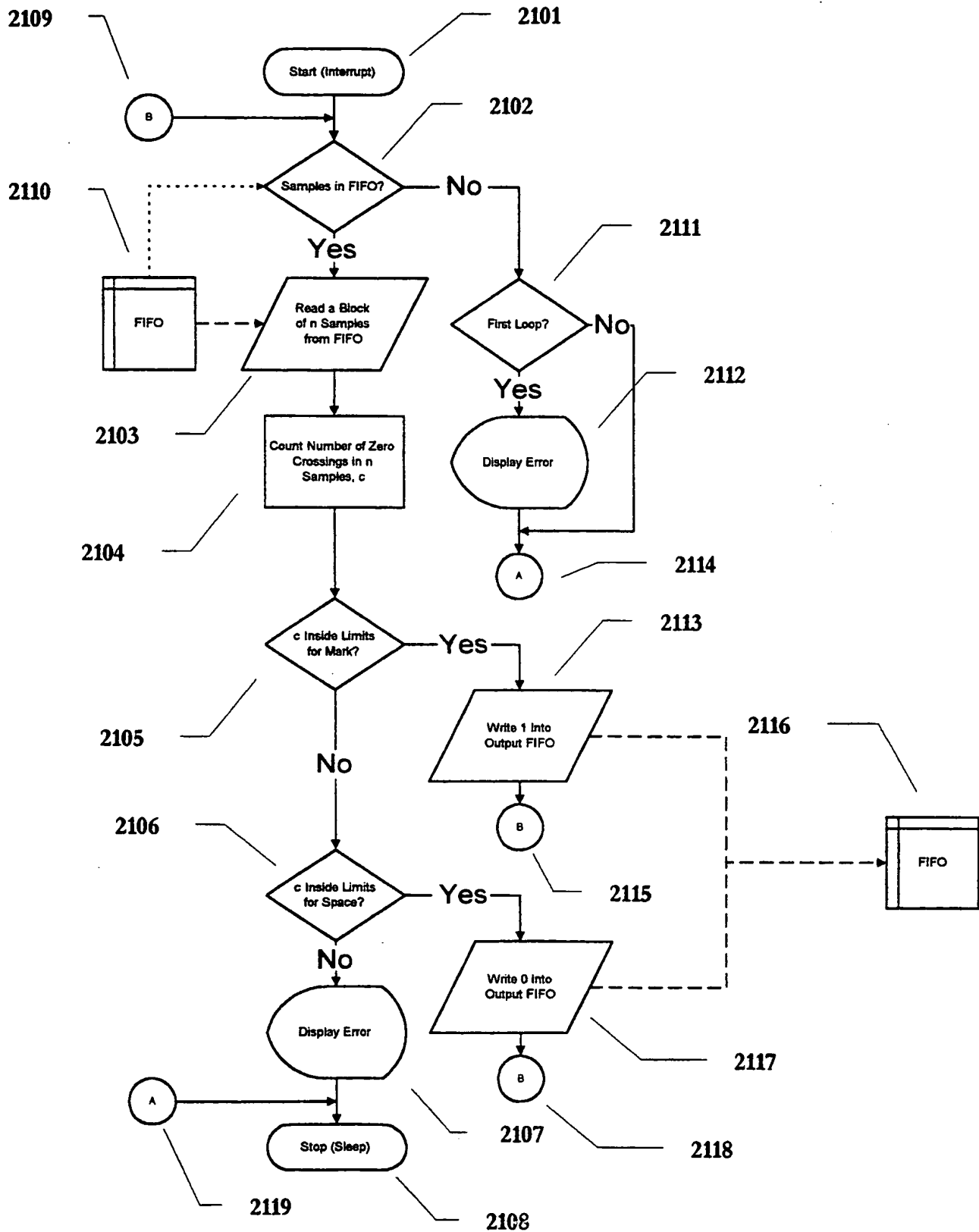


Figure 20

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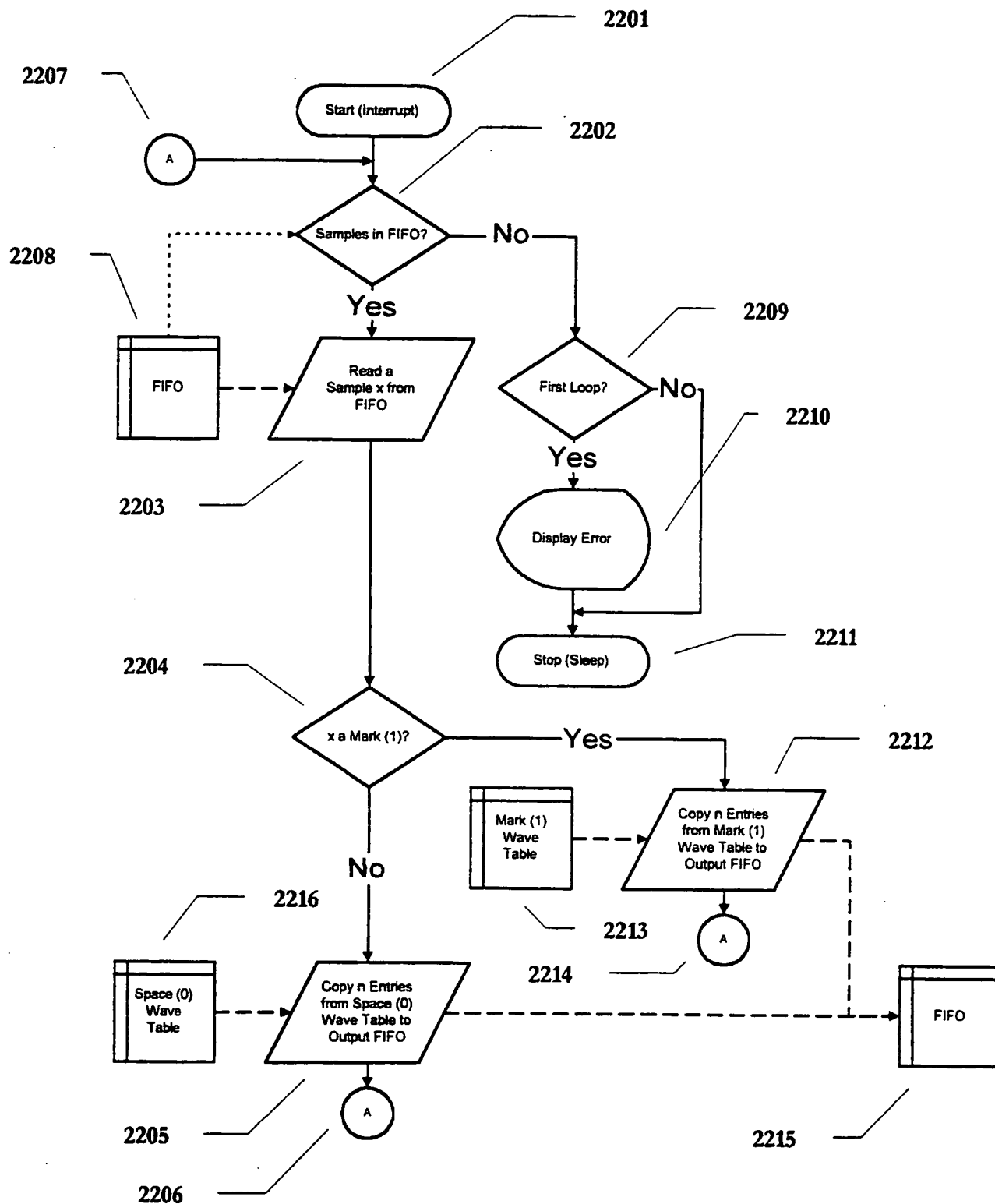


Figure 22